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IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A magnesium-based hydrogen storage material including

a magnesium or a-magnesium-based hydrogen storage alloy; and

a hydrogen desorption catalyst,

wherein said hydrogen desorption catalyst is insoluble in said magnesium or magnesium-based hydrogen storage alloy and is in the form of

a continuous or semi-continuous layer of catalytic material on the surface of said magnesium or magnesium-based hydrogen storage alloy which is in bulk or particulate form; alone or in combination with discrete dispersed regions of catalytic material in the bulk of said magnesium or magnesium-based hydrogen storage alloy.

2. (Original) The magnesium-based hydrogen storage material of claim 1, wherein said magnesium-based hydrogen storage alloy includes at least 80 atomic percent magnesium.

3. (Original) The magnesium-based hydrogen storage material of claim 2, wherein said magnesium-based hydrogen storage alloy further includes aluminum.

4. (Original) The magnesium-based hydrogen storage material of claim 1, where in said hydrogen desorption catalyst includes iron.